

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Application of: )  
)  
**Grant E. Wild** )  
)  
Serial No. )  
)  
Filed: CONCURRENTLY )  
)  
For: **Improved Prosthetic Knee and** )  
**Rotary Hydraulic Chamber** )

March 12, 2004

Commissioner for Patents  
P.O. Box 1450  
Alexandria, VA 22313-1450

**INFORMATION DISCLOSURE STATEMENT**

Sir:

As suggested by 37 C.F.R. §1.97, applicant's undersigned attorney brings to the attention of the Patent and Trademark Office the references listed on the attached Form PTO/SB/08, a copy of each of which is enclosed. This is not to be construed as a representation that a search has been made, or that no better prior art exists, or that a reference is relevant merely because cited.

Petrofsky, U.S. Patent Nos. 6,113,642 and 5,888,212 depict computer controlled hydraulic resistance devices for a prosthesis with electronic sensing apparatus.

Biedermann, U.S. Patent No. 6,423,09 teaches a leg prosthesis utilizing a magnetic rheological fluid in a hydraulic cylinder to adjust damping characteristics.

Boender, U.S. Patent No. 6,106,560 depicts a hydraulic knee joint where fluid flows between hydraulic chambers.

Gramnäs, U.S. Patent No. 5,800,566 depicts an artificial joint with a linear hydraulic damping cylinder with channels, chokes, and back valves to control fluid flow.

Wagner, U.S. Patent No. 5,704,945 depicts a knee joint with a rotary hydraulic damping chamber with a solid rotary piston.

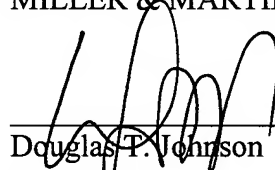
Gramnäs, U.S. Patent No. 5,314,498 depicts an artificial knee joint with multiple pivots.

Otto Bock-Habermann, Otto Bock and OSSUR product manuals depict various knee joint products available in the market place. The OSSUR manuals reflect designs based on the Gramnäs '566 patent. The Otto Bock-Habermann joint is a polycentric embodiment, and the Otto Bock Rotary hydraulic knee joints are based on the Wagner '945 patent. Some of these designs also include extension assist devices.

Examiner is requested to review these references and cite them of official record in this application.

Respectfully submitted,

MILLER & MARTIN



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Douglas P. Johnson

Reg. No. 31,841

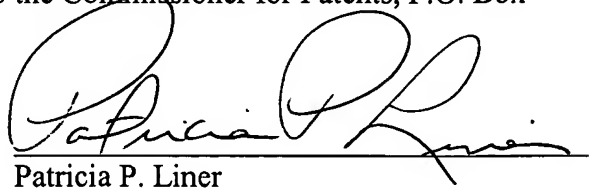
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|-------|---|----|---|

**Complete if Known**

|                        |               |
|------------------------|---------------|
| Application Number     |               |
| Filing Date            |               |
| First Named Inventor   | Grant E. Wild |
| Art Unit               |               |
| Examiner Name          |               |
| Attorney Docket Number | 03243-0102    |

## U. S. PATENT DOCUMENTS

[illegible]

## FOREIGN PATENT DOCUMENTS

[illegible]

|                       |  |                    |  |
|-----------------------|--|--------------------|--|
| Examiner<br>Signature |  | Date<br>Considered |  |
|-----------------------|--|--------------------|--|

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|-------|---|----|---|------------------------|---------------|
| Sheet | 2 | of | 2 | Application Number     |               |
|       |   |    |   | Filing Date            |               |
|       |   |    |   | First Named Inventor   | Grant E. Wild |
|       |   |    |   | Art Unit               |               |
|       |   |    |   | Examiner Name          |               |
|       |   |    |   | Attorney Docket Number | 03243-0102    |

**NON PATENT LITERATURE DOCUMENTS**

| Examiner Initials* | Cite No. <sup>1</sup> | Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published. | T <sup>2</sup> |
|--------------------|-----------------------|---|----------------|
|                    | 8                     | Otto Bock-Habermann Modular Knee Joint, Polycentric, Four Bar Linkage Product Manual  |                |
|                    | 9                     | Otto Bock Modular Knee Joint with Rotary Hydraulic - Model 3R80 - Product Manual  |                |
|                    | 10                    | Otto Bock Modular Knee Joint with Rotary Hydraulic - Model 3\$80=1 - Product Manual   |                |
|                    | 11                    | Otto Bock Modular Single Axis Knee Joint with Stance Control and Constant Friction Product Manual   |                |
|                    | 12                    | Otto Bock Modular Single Axis Knee Joints with Internal Extension Assist and Constant Friction Product Manual   |                |
|                    | 13                    | OSSUR Total Knee 2100 Geometric Locking System Product Manual   |                |
|                    | 14                    | OSSUR Total Knee 2000 Geometric Locking System Product Manual   |                |
|                    | 15                    | OSSUR Academy Alignment Recommendation Total Knee Presentation  |                |
|                    |                       |   |                |
|                    |                       |   |                |

|                    |  |                 |  |
|--------------------|--|-----------------|--|
| Examiner Signature |  | Date Considered |  |
|--------------------|--|-----------------|--|

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